

TENTATIVE SCHEDULE TECHNICAL SESSIONS

WEDNESDAY AFTERNOON, APRIL 1

	Pretreatment	Legislative/Regulatory	Small Systems	Water Resources
1:20 - 1:50 pm	<p>Pollution Prevention and Pretreatment Inspections: How to Kick It Up a Notch! David James <i>Wastewater Training & Consulting</i></p>	<p>An 86th Texas Legislative Session Recap, Rulewriting and Interim Update Julie Nahrgang <i>Water Environment Association of Texas/ Texas Association of Clean Water Agencies</i></p>	<p>AMPSS: A Pilot Asset Management Program for Small Systems Christopher Nance <i>Parkhill, Smith & Cooper</i></p>	<p>Aquifer Storage and Recovery: Assessment of Water Supply Strategies and Subsidence Risk Van Kelly, <i>INTERA</i> Michael Turco, <i>Harris-Galveston Subsidence District</i> Neil Deeds, <i>INTERA</i> Tina Petersen, <i>Harris-Galveston Subsidence District</i></p>
1:55 - 2:25 pm	<p>Know Thy Waste Stream: A Comprehensive Look at Pretreatment Programs Influent and Effluent Scans Peter Reale <i>Plummer</i> Chris Pasch <i>Plummer</i></p>	<p>AWWA/NACWA/WEF Combined Updates Steven Dye <i>WEF Legislative Director</i> Tommy Holmes <i>AWWA Legislative Director</i></p>	<p>Backflow Woes: A Small City's Story of Adopting a Backflow Prevention Program Adrian Garcia <i>Fair Oaks Ranch</i> Melissa Castro <i>Fair Oaks Ranch</i></p>	<p>Water Resources Planning Tool and Its Implementation to EP Water's Future Water Supply Planning Gilbert Trejo <i>El Paso Water</i></p>
2:30 - 3:00 pm	<p>What to Expect When You Are Expecting a New Pretreatment Program Cory Moose <i>City of Midland</i> Murali Erat <i>Freese and Nichols</i></p>	<p>EPA Region 6 Updates on Water and Water Quality Issues Charles Maguire <i>EPA Region 6</i></p>	<p>One City's Rounding Error is Another SUD's Max Day: Modeling <1 MGD Water Systems Ashlyn Morgan <i>Kimley-Horn and Associates</i></p>	<p>Simulating the TRWD Water Supply Reservoir System with the Integrated Pipeline Project Using Dendrochronological Climate Reconstruction David Marshal <i>Tarrant Regional Water District</i> Courtney Jalbert <i>Tarrant Regional Water District</i> Laura Blaylock <i>Tarrant Regional Water District</i></p>
Networking Break in the Exhibit Hall 3:00 - 3:30 PM				
3:30 - 4:00 pm	<p>Conventional Parameters and Technically Based Local Limits – Isn't This What the Plant Was Designed to Treat? Janet Sims <i>Perkins Engineering Consultants</i></p>	<p>TCEQ Updates on Water Quality/ Drinking Water Issues <i>Texas Commission on Environmental Quality</i></p>	<p>The Elephant in the Room: A Small Town's Creative Approach to a Big Infrastructure Challenge Matthew Abbe <i>AECOM</i> Paige Cronin <i>AECOM</i> Ray Banks <i>Dallas County Public Works</i></p>	<p>Evaluating Alternative Water Supplies to Meet Demand in a Growing City Jennifer Klidies <i>Corpus Christi Water</i> Crystal Ybanez <i>Corpus Christi Water</i> Esteban Ramos <i>Corpus Christi Water</i> Gabriel Ramirez <i>Corpus Christi Water</i></p>
4:05 - 4:35 pm	<p>Laboratory</p> <p>The Engineer Requested What? Decoding an Engineer's Data Request Rusty Tate <i>Garver</i></p>	<p>PFAS 101: An Introduction to Per- and Polyfluoroalkyl Substances Amber Batson <i>CDM Smith</i></p>	<p>Planning Ahead of the Curve – Long-Term Water Demand Projections for the City of Richmond, Texas Justin Bartlett, <i>KIT Professionals</i> Howard Christian, <i>City of Richmond</i> Yatra Dhruv, <i>KIT Professionals</i> Terri Vela, <i>KIT Professionals</i></p>	<p>Keep Aging Dams Up to Snuff: Best Practices from Four Large Texas Reservoirs Louis Verreault <i>Tarrant Regional Water District</i> Marc Miller <i>Freese and Nichols</i></p>
4:40 - 5:10 pm	<p>Understanding Whole Effluent Toxicity Testing Ginger Briggs <i>Bio-Analytical Laboratories</i></p>	<p>Nutrients Are Reappearing: New Developments for TPDES Permits Rajendra Bhattarai <i>Clean Water Strategies</i> Michael Morrison <i>Freese and Nichols</i> Ana Peña-Tijerina <i>Fort Worth Water</i> Lisa Boatman <i>Austin Water</i></p>	<p>TCEQ Water/Wastewater Pipeline Separation Requirements – Navigating the Regs Ron King <i>Dunaway Associates</i></p>	<p>Planning and Executing an Aquifer Storage and Recovery Pilot Project James Dwyer <i>HDR</i></p>

TENTATIVE SCHEDULE TECHNICAL SESSIONS

WEDNESDAY AFTERNOON, APRIL 1

Odor & Corrosion Control	Diversity/Workforce	Water Conservation	University Forum	
<p style="text-align: center;">Arresting Wastewater Sulfide Formation: A Nitrate Narrative Richard Pope <i>Hazen and Sawyer</i></p>	<p style="text-align: center;">Leading and Managing in Changing Times Amber Batson <i>CDM Smith</i></p>	<p style="text-align: center;">Technology Friend or Foe? Which Tech Solutions Are Saving Water & Helping Customers? Karen Guz <i>San Antonio Water System</i></p>	<p style="text-align: center;">The Heterogeneous Nucleation of Gypsum Flat Surface: The Role of Hydrophobicity Xiaochuan Huang <i>Rice University</i></p>	1:20 - 1:50 pm
<p style="text-align: center;">What You Don't Learn in College About Odor Control James McMillen <i>Perkins Engineering Consultants</i></p>	<p style="text-align: center;">Filling the Workforce Pipeline: Houston's Efforts to Attract, Train and Develop its Water Workforce Magda Alanis <i>City of Houston</i> Xuan Zheng <i>AECOM</i> Dylan Christenson <i>Black & Veatch</i></p>	<p style="text-align: center;">Why SMART Irrigation Controller Rebates are not SMART for Conserving Water Gail Donaldson <i>City of Allen</i></p>	<p style="text-align: center;">Nitrification of High Strength Waste Streams at Low pH in a Membrane Aerated Bioreactor Maryam Salehi <i>Texas Tech University</i></p>	1:55 - 2:25 pm
<p style="text-align: center;">The Silent Killer: Balancing Municipal Wastewater Infrastructure Affected by Corrosion and Maintaining Service in Texas Communities Wade Parks, <i>Garver</i> Barry Calhoun, <i>City of Bay City</i> Louis Rodriguez, <i>City of Bay City</i> Jimmy Dunham, <i>Dunham Engineering</i> Jeff Maier, <i>Garver</i></p>	<p style="text-align: center;">Leveraging Technology to Attract The Next Generation Workforce Clarence Wittwer <i>City of Pearland</i></p>	<p style="text-align: center;">Data-Driven Decisions in Cowtown: Using the Municipal Water Conservation Planning Tool to Set Targets Micah Reed <i>Fort Worth Water</i> Jeremy Rice <i>Freese and Nichols</i> Adam Conner <i>Freese and Nichols</i></p>	<p style="text-align: center;">Accelerating Water Hammer Simulations Using Vectorization Gerardo Riano-Briceno <i>The University of Texas at Austin</i></p>	2:30 - 3:00 pm
Networking Break in the Exhibit Hall 3:00 - 3:30 PM				
<p style="text-align: center;">Ahead of the Odor! Establishing Odor Control for a Greenfield Plant Brandy Martinez <i>CDM Smith</i></p>	<p style="text-align: center;">Utility Workforce Recruiting and Development Ron Patel <i>Dallas Water Utilities</i> Darell Long <i>Dallas Water Utilities</i> Darrell Poore <i>Dallas Water Utilities</i></p>	<p style="text-align: center;">Granularity, Who Needs It: Understanding the Role of Data and Conservation Potential Robert Stefani <i>Austin Water</i></p>	<p style="text-align: center;">Enhancing Solar Membrane Distillation Performance Using Core-shell Nanofiber Ruikun Xin <i>Rice University</i></p>	3:30 - 4:00 pm
<p style="text-align: center;">The Good, The Bad, and The Ugly (Of Water Conservation and Corrosion Control) Fernie Silva <i>Brown and Caldwell</i></p>	<p style="text-align: center;">How to Embrace Diversity and Inclusion Sapna Mulki <i>Water Savvy Solutions</i></p>	<p style="text-align: center;">Tis The Season, Modeling and Adopting Seasonal Drought Triggers for the North Texas Municipal Water District Jeremy Rice, <i>Freese and Nichols</i> Denise Hickey, <i>North Texas Municipal Water District</i> Billy George, <i>North Texas Municipal Water District</i> Tom Gooch, <i>Freese and Nichols</i></p>	<p style="text-align: center;">A Topological Technique for Optimizing Parallel Speedup of Urban Water Modeling Edward Tiernan <i>The University of Texas at Austin</i></p>	4:05 - 4:35 pm
<p style="text-align: center;">Comprehensive Evaluation of Collection System Odor, Ventilation and Corrosion in Austin, Texas Soo Koon Soon <i>Austin Water</i></p>	<p style="text-align: center;">Collaboration Inside and Outside of the Classroom: Public and Private Sector Support of Dallas High School Student Interest in the Water Industry Bridgette Bennett <i>Carollo Engineers</i> Guadalupe Bailey <i>Dallas Water Utilities</i> Joshua Kennedy Davis <i>W.T. White High School</i></p>	<p style="text-align: center;">Audits, Reports and Plans – Oh My! Shae Luther <i>Texas Water Development Board</i> John Sutton <i>Texas Water Development Board</i></p>	<p style="text-align: center;">Mechanisms of Irreversible Fouling During Microfiltration of Treated Municipal Wastewater Effluent Kunal Gupta <i>Texas A&M University</i></p>	4:40 - 5:10 pm

TENTATIVE SCHEDULE TECHNICAL SESSIONS

THURSDAY MORNING, APRIL 2

	Drinking Water Quality	Wastewater Collection	MRRDC/Wastewater Treatment & Operations	Water Distribution
9:00 - 9:30 am	<p>Using an Integrated Approach to Monitor Algal Blooms Hunter Adams <i>City of Wichita Falls</i> Frances Buerkens <i>Fluid Imaging Technologies</i> Sam Reeder <i>City of Wichita Falls</i> Ashley Cottrell <i>City of Wichita Falls</i> Mark Southard <i>City of Wichita Falls</i></p>	<p>Capacity Evaluation Approach for the City of Houston's Sewer Replacement Program James Brescol <i>Tetra Tech</i> Fazole Rabbi <i>City of Houston</i> Pratistha Pradhan <i>City of Houston</i> Carol Hufnagel <i>Tetra Tech</i></p>	<p>Utilizing Metabolic Selectors to Facilitate the Path to Densification of Activated Sludge Brandt Miller <i>Hazen and Sawyer</i> Alonso Griborio <i>Hazen and Sawyer</i> Donna Long <i>North Texas Municipal Water District</i></p>	<p>It Takes Two to Model Build: Combining SCADA Data with Operations Staff Knowledge Leads to Efficient Development of a Complex Hydraulic Model Regina Stencil <i>Dallas Water Utilities</i> Katherine Sager <i>Carollo Engineers</i></p>
9:35 - 10:05 am	<p>Does Regulating PFAS at the Federal or State Level Represent a Meaningful Opp for Health Risk Redux Chad Seidel <i>Corona Environmental Consulting</i></p>	<p>San Antonio Water System Case Study: Managing Infrastructure Proactively Using Smart Monitoring Solutions Annette Duron <i>San Antonio Water System</i></p>	<p>Leaving No Stone Unturned! Process Selection for a Large Greenfield Water Resource Recovery Facility Samir Mathur <i>CDM Smith</i></p>	<p>Managing Distribution System Water Quality While Diversifying Water Sources Carrie Smith <i>Arcadis</i> Ashley Evans <i>Arcadis</i> Michael Short <i>New Braunfels Utilities</i> Dean Watson <i>New Braunfels Utilities</i></p>
10:10 - 10:40 am	<p>Could On-Site ATP Analysis Allow for Faster Return of Dist System Infrastructure to Service? Ashley Evans <i>Arcadis</i></p>	<p>CCTV Machine Learning Artificial Intelligence is Here! Chuck Hansen <i>Hansen Analytics</i></p>	<p>Maximizing Basin Performance - Combining CFD and Biological Modeling Lance Klement <i>Garver</i> Kamyar Sardari <i>Garver</i> Regina Stencil <i>Dallas Water Utilities</i> Samuel Bush <i>Garver</i></p>	<p>Digging Deep in San Antonio – The Planning and Design of 2 Miles of 54-inch Pipe 80 feet Deep Mark Bush <i>Tetra Tech</i> Gerardo Gomez <i>San Antonio Water System</i> Molly Lovegren <i>Tetra Tech</i></p>
10:45 - 11:15 am	<p>Water Treatment Technologies for PFAS: Current and Next Generations Corey Theriault <i>Arcadis</i></p>	<p>A Comprehensive Criticality-Based Prioritization Approach for Wastewater Collection Pipeline Rehabilitation in the City of Austin Aldo Sotelo <i>Stantec Consulting Services</i> Joe Herman <i>Stantec Consulting Services</i></p>	<p>Capacity and Hydraulic Improvements at the City of Austin Walnut Creek WWTP Settled Wastewater Pump Station Behnouth Yeganeh <i>AECOM</i> Rebecca Vento <i>Austin Water</i> Ioan Chilarescu <i>AECOM</i> Charles Celauro <i>Austin Water</i></p>	<p>Planning and Building a 'Leaner and Meaner' Water System Through Advanced Modeling and Data Analysis Sunil Kommineni <i>KIT Professionals</i> Robert Upton <i>City of Pearland</i> Justin Bartlett <i>KIT Professionals</i> Skipper Jones <i>City of Pearland</i> Jeffrey Peters <i>Ardurra Group</i></p>
11:20 am - 11:50 am	<p>Dealing with Microbially Induced Corrosion at T-Bar Well Field Kayleigh Millerick <i>Texas Tech University</i> Kenneth Rainwater <i>Texas Tech University</i> Fayruj Ahmed <i>Texas Tech University</i> Kyle Krueger <i>Parkhill, Smith and Cooper</i> Landon Allen <i>Parkhill, Smith and Cooper</i></p>	<p>Design Lessons-Learned from Condition Assessment and Risk-Based Prioritization of 130 Wastewater Lift Stations Harrison Steed <i>Arcadis</i> Fabiola DeCarvalho <i>City of Sugar Land</i></p>	<p>Peak (Wet Weather) Flow Treatment Evaluation for the Consolidation of WWTPs in Houston, TX Ayobamidele Bello <i>HR Green</i> Michael Halde <i>HR Green</i> Bintuan Zhu <i>City of Houston</i></p>	<p>A Graph is Worth a Thousand Cells: Visually Communicating Variables in Water Supply and Demand Projections to Decision Makers Lindsay Kovar <i>BGE</i> Julia Frankovich <i>BGE</i></p>

TENTATIVE SCHEDULE TECHNICAL SESSIONS

THURSDAY MORNING, APRIL 2

Water Treatment & Operations	Asset Management	Construction Issues	Utility Management	
<p style="text-align: center;">52 Hours Above 300 NTU - How Austin Water Navigated Flood Event Brian Haws <i>Austin Water</i></p>	<p style="text-align: center;">Asset Management and Reporting with Power Bi Rachel Crawley <i>Tarrant Regional Water District</i> Courtney Jalbert <i>Tarrant Regional Water District</i></p>	<p style="text-align: center;">Progressive Design-Build from the Owner, Owner's Representative and Contractor Point of View Gary Dreighton <i>NDM</i> Rick Zohne <i>Dallas Water Utilities</i> Marc Cottingame <i>Dallas Water Utilities</i> Randy Palachek <i>Parsons Water & Infrastructure</i> Chris Schmid <i>CP&Y</i></p>	<p style="text-align: center;">Avoid Losing Decades of Knowledge When Tenured Staff Departs Leslie Jansen <i>Austin Water</i></p>	9:00 - 9:30 am
<p style="text-align: center;">Turbidity, H2S, E. coli, Oh My! Accelerated Design and Construction of a Membrane WTP to Address Unexpected Water Quality Issues Kira Iles <i>Freese and Nichols</i> Michael Sherer <i>Freese and Nichols</i></p>	<p style="text-align: center;">From the Rio Grande to the Well Fields in the North – How El Paso Water Manages a critical 20-mile Cross City Water Main Felipe Lopez <i>El Paso Water</i></p>	<p style="text-align: center;">Finding Common Ground in Uncharted Territory: The Role of the Design-Builder and the Owner's Agent in the Joint Provision of Professional Engineering Services Sarah Berkey <i>Carollo Engineers</i> Cory Johnson <i>Jacobs</i> Jasmin Zambrano <i>City of Houston</i></p>	<p style="text-align: center;">Don't Reinvent the Wheel: How Richwood Leveraged Effective Utility Planning to Solve Classic Water and Wastewater Problems Kendall Ryan <i>Freese and Nichols</i> Ishita Rahman <i>Freese and Nichols</i> Clif Custer <i>City of Richwood</i></p>	9:35 - 10:05 am
<p style="text-align: center;">Houstons Approach to Preparing and Equipping Staff to Operate and Maintain Paul Walker <i>Carollo Engineers</i> Jasmin Zambrano <i>City of Houston</i> Andrew Molly <i>City of Houston</i> Eric Garza <i>City of Houston</i> Rajinder Singh <i>City of Houston</i></p>	<p style="text-align: center;">Fort Worth's Storm Drain Rehabilitation Program: Cowtown's Approach to Wrangling Storm Drains Matt Stahl <i>Half Associates</i> Michael Owen <i>City of Fort Worth</i> Benjamin Pylant <i>Half Associates</i> Preston Dillard <i>Half Associates</i></p>	<p style="text-align: center;">How a Successful Public-Private Partnership Brings Water for the Next Generation Marisa Vergara <i>CP&Y</i> Carissa Shelley <i>Pape-Dawson Engineers</i> Bill Williams <i>Garney Construction</i></p>	<p style="text-align: center;">Leveraging Data for Monitoring and Controlling EPA Consent Decree Sewer Projects Richard Donat <i>San Antonio Water System</i></p>	10:10 - 10:40 am
<p style="text-align: center;">Membrane Gravity Filtration Simon Breese <i>AECOM</i></p>	<p style="text-align: center;">The Matrix is Only the Beginning- Using a Holistic Framework to Develop and Prioritize Projects from Asset Data and Implement CIPs Strategically William Lloyd <i>HDR</i> Alex Shannon <i>HDR</i> Rob Hoffman <i>HDR</i></p>	<p style="text-align: center;">Timing is Everything; Eight Contracts, One Deadline for Bringing San Antonio's Newest Water Supply Online Leslie Turner <i>Tetra Tech</i> Alissa Lockett <i>San Antonio Water System</i></p>	<p style="text-align: center;">Maintenance Planning and Scheduling from Scratch - Our Experience Defeating Parkinson's Law Joel Nickerson <i>North Texas Municipal Water District</i> Richard 'Doc' Palmer <i>Richard Palmer and Associates</i></p>	10:45 - 11:15 am
<p style="text-align: center;">Historic Meets Modern: Retrofitting 70-Year-Old Sedimentation Basins with Circular Clarifier Mechanisms Christopher Boyd <i>Plummer</i> Alan Davis <i>Plummer</i> Dena Johnson <i>City of Fort Worth</i></p>	<p style="text-align: center;">From Feast to Famine - Adapting Your Asset Management Plan Based on Data Availability Dexter May <i>Plummer</i> Reza Malek <i>Plummer</i></p>	<p style="text-align: center;">Teamwork Makes the Dream Work: QC and QA Strategies on the \$1.6 Billion Bois d'Arc Lake Program Adam Payne <i>Freese and Nichols</i> Greg Bradley <i>North Texas Municipal Water District</i> Fain Butler <i>North Texas Municipal Water District</i></p>	<p style="text-align: center;">How Do We Decide? The Methodology Used to Shape the Future for the Pierce-Burch Water Treatment Plant Robert Hoffman <i>HDR</i> Katie Livas <i>HDR</i> Andrew McBride <i>City of Arlington Water Utilities</i> Jessie Allen <i>City of Arlington Water Utilities</i></p>	11:20 am - 11:50 am

TENTATIVE SCHEDULE TECHNICAL SESSIONS

THURSDAY AFTERNOON, APRIL 2

	Drinking Water Quality	Wastewater Collection	MRRDC/Wastewater Treatment & Operations	Water Distribution
1:10 - 1:40 pm	<p>Alternative Coagulant Evaluation - Bench, Pilot and Full-Scale Coagulant Testing to Determine Best Alt to Alum</p> <p>Kristen Cope, <i>Hazen and Sawyer</i> Rafael Martinez, <i>City of Corpus Christi</i> William Creech, <i>City of Corpus Christi</i> Vaibhavi Shankar, <i>LNV</i> Jim DeWolfe, <i>Hazen and Sawyer</i></p>	<p>IT STICKS AND IT STINKS: A Unique Approach to Improve the Operations of the Lakeview Force Main System and its Valves</p> <p>David Trejo <i>RJN Group</i> Derek Schwanke <i>RJN Group</i> Elizabeth Boddicker <i>Upper Trinity Regional Water District</i></p>	<p>Win-Win: An Efficient Approach to Regionalized Expansion</p> <p>John Lacy, <i>Costello</i> Dan McGraw, <i>City of Missouri City</i> Shih-Hui Pan, <i>Costello</i> Shashi Kumar, <i>City of Missouri City</i> Chad Hablinski, <i>Costello</i></p>	<p>108-inch Water Transmission Main from Lake Houston to West of IH-45: Design Challenges in a 16.5 Mile Waterline through a Highly Developed Urban Landscape</p> <p>Micahel Liga <i>Lockwood, Andrews, and Newnam</i> Natasha Lombard <i>Lockwood, Andrews, and Newnam</i> Kevin Tran <i>City of Houston</i></p>
1:45 - 2:15 pm	<p>Harmful Algal Bloom Preparedness and Responses: 5 Years Since Toledo</p> <p>Amlan Ghosh <i>Corona Environmental Consulting</i></p>	<p>Reducing Costs and Sewer Overflows with a Preventative Maintenance Program for the City of Houston</p> <p>Jason Maldonado <i>RJN Group</i> Tristan Nickel <i>RJN Group</i> Ogadinma Onyebuchi <i>City of Houston</i></p>	<p>Four Cities Working Together for 10 MGD Expansion of the East Wastewater Treatment Plant - Brushy Creek Regional Wastewater System (BCRWWS)</p> <p>David Freireich <i>City of Round Rock</i> Josh Frisinger <i>Plummer</i></p>	<p>'All - in - One' Advanced Water Quality Tool to Monitor and Control Nitrification in Distribution System</p> <p>Varenya Mehta, <i>KIT Professionals</i> Julian Kelly, <i>City of Pearland</i> Sunil Kommineni, <i>KIT Professionals</i> David Van Riper, <i>City of Pearland</i> Justin Bartlett, <i>KIT Professionals</i></p>
2:20 - 2:50 pm	<p>Assessing Treatability of 5 Source Waters w/ Bench-Scale Ozonation Testing</p> <p>Christina Alito, <i>HDR</i> Robert Hoffman, <i>HDR</i> Sally Wright, <i>Dallas Water Utilities</i> Chaise Holmgren, <i>Dallas Water Utilities</i> Chance Lauderdale, <i>HDR</i></p>	<p>The Road Less Traveled: 144" Gravity Sewer Tunnel in DOT ROW</p> <p>Jeffrey Farnsworth <i>Kimley-Horn & Associates</i></p>	<p>"Missouri City Pickers" A WWTP Package Plant Tale of Trash to Treasure that Creates a Win-Win for All</p> <p>Jeffrey Peters <i>Ardurra Group</i></p>	<p>Building a Successful Data Driven Water Main Replacement Program at SAWS</p> <p>Celine Hyer <i>Arcadis</i> Adam Aranda <i>San Antonio Water System</i></p>
Networking Break in the Exhibit Hall 2:50 - 3:20 PM				
3:20 - 3:50 pm	<p>Already Blending Water Sources, What's One More?</p> <p>Juvencio Zamora <i>Plummer</i> Michael Short <i>New Braunfels Utilities</i></p>	<p>SAWS Rosillo Creek: Solutions In-line, In Time</p> <p>Paul Smith <i>Arcadis</i></p>	<p>Small Footprint Energy Efficient Nutrient Removal - Design of the First AGS WWTP in the US</p> <p>Sean Scuras <i>Garver</i></p>	<p>236 MGD in 3D: Pump Station Innovations at Texas' First New Reservoir in 30 Years</p> <p>Amanda Powers <i>Freese and Nichols</i> Sam Meisner <i>Freese and Nichols</i></p>
3:55 - 4:25 pm	<p>Optimizing RO Systems to Improve Drinking Water Production</p> <p>Guillermo Delgado <i>H2O-TERRA</i> Scott Reinert <i>El Paso Water</i></p>	<p>Thinking Outside the "Junction" Box: The Use of Large Diameter Fiberglass Round Structures in Substitution for Concrete Junction Box to Save Time and Cost</p> <p>George Farrah <i>Plummer</i> Amanda Voss <i>Trinity River Authority of Texas</i></p>	<p>"Beefing Up" Treatment Capacity and Energy Savings with IFAS and Advanced Aeration Control</p> <p>Jiangang (Daniel) Deng <i>Corpus Christi Utilities Department</i> Murali Erat <i>Freese and Nichols</i> Rachel Turner <i>Freese and Nichols</i> Mark Maroney <i>Urban Engineering</i></p>	<p>Water Main Pipe Bursting - A SAWS Tale</p> <p>Lance Rothe <i>San Antonio Water System</i></p>
4:30 - 5:00 pm	<p>The Making of Bois d'Arch Bubbly - Challenges of Designing a Greenfield WTP w/ a Non-Existent Water Source</p> <p>Brian Fuerst <i>Jacobs</i> Aliza Caraballo <i>North Texas Municipal Water District</i> Ellen Musallam <i>North Texas Municipal Water District</i></p>	<p>Threading the Needle Through Time and Space: The Challenges of Designing a Large Diameter Wastewater Main Through Tight Corridors and in Time to Receive Flows</p> <p>Robb Otey, <i>Freese and Nichols</i> Casey Rhodes, <i>City of College Station</i> Ryan Opgenorth, <i>Freese and Nichols</i> Jared Barber, <i>Freese and Nichols</i></p>	<p>Ten Years of Treating Wastewater Using Membranes - Lessons Learned</p> <p>Michael Urrutia <i>Guadalupe-Blanco River Authority</i></p>	<p>Water Storage Tank Maintenance for Budgetary and Operational Success</p> <p>Marcel Khouw <i>IDS Engineering Group</i></p>

TENTATIVE SCHEDULE TECHNICAL SESSIONS

THURSDAY AFTERNOON, APRIL 2

Water Treatment & Operations	Asset Management	Construction Issues	Utility Management	
<p>Five Shades of Pink: Optimizing Zebra Mussel Control James Naylor <i>Freese and Nichols</i> Kira Iles <i>Freese and Nichols</i></p>	<p>How Austin Water Succeeded by Keeping it Simple Austin Freiburger <i>Austin Water</i></p>	<p>From Inception to Operation – The Success Story of Upgrading the Aging Filter Facility at South Austin Wastewater Treatment Plant Behnoush Yeganeh, <i>AECOM</i> Charles Celauro, <i>Austin Water</i> John Buser, <i>AECOM</i> Steve Parks, <i>Austin Water</i></p>	<p>Comprehensive Planning Results in Well-Informed Decisions: Using a Variety of Models & Studies to Optimize Facility Planning for Multiple Plant Expansions Katherine Overstreet <i>CP&Y</i> Amy Middleton <i>San Antonio River Authority</i> Dawn Anderson <i>CP&Y</i></p>	1:10 - 1:40 pm
<p>How to Get a New Water Source to Play Nice with Others Joseph Jenkins <i>Walker Partners</i></p>	<p>The Big Picture: A Wholistic Approach to Asset Management Ethan Shires <i>Freese and Nichols</i> Cullen Carlson <i>Freese and Nichols</i> A. Rahman Kafray <i>City of Garland</i> Melissa Brunger <i>Freese and Nichols</i></p>	<p>Operations Collaboration - Construction Sequencing to Ensure Continuous Operations Regina Stencil, <i>Dallas Water Utilities</i> Jeff Sober, <i>Garver</i> Lance Phillips, <i>Dallas Water Utilities</i> Clifford Creeks, <i>Dallas Water Utilities</i> Andy Pruitt, <i>Garver</i></p>	<p>Integrating Performance-Based Failure Modes into a Risk-Based Asset Renewal Program for a Large Wastewater Collection System Dan Olson, <i>Garver</i> Aaron Schindewolf <i>San Jacinto River Authority</i> Greg Lushbaugh <i>San Jacinto River Authority</i> Chris Meeks <i>San Jacinto River Authority</i></p>	1:45 - 2:15 pm
<p>A Progressive Design Approach for Conv WTP Jasmin Zambrano, <i>City of Houston</i> Rajinder Singh, <i>City of Houston</i> Carrie Knatz, <i>CDM Smith</i> Susan Crawford, <i>CDM Smith</i> Mark Allen, <i>CDM Smith</i></p>	<p>Advanced Pipeline Condition Assessment Technologies for Wastewater Systems Jeff Maier <i>Garver</i></p>	<p>Constructing 108 inch/120-inch Through the City of Houston - What Could Happen? Getting Large Diverse Teams Working Together Kathy Berek <i>KCI Technologies</i> Kevin Tran <i>City of Houston</i></p>	<p>Proactive Prioritization: Fort Worth Water's Innovative Tool/Approach to Assess Rehabilitation for a 3,500 Mile Water and Sewer System Mark Wilson, <i>Fort Worth Water</i> Scott Taylor, <i>Fort Worth Water</i> Jessica Brown, <i>Freese and Nichols</i> Mazen Kawasmi, <i>Freese and Nichols</i> Andrew Franko, <i>Freese and Nichols</i></p>	2:20 - 2:50 pm
Networking Break in the Exhibit Hall 2:50 - 3:20 PM				
<p>Eliminating the Danger Zone: SAWS Experience with On-Site Hypo Generation Alissa Lockett <i>San Antonio Water System</i> Gunnar Thordarson <i>PSI Water Technologies</i></p>	<p>Managing your Assets so that they Work for YOU Rhonda Harris <i>AMCL</i></p>	<p>Successful Procedure: Wastewater Bypass in the Heart of Dallas Erin Flanagan <i>Freese and Nichols</i> Cullen Carlson <i>Freese and Nichols</i> Regina Stencil <i>Dallas Water Utilities</i></p>	<p>To Assessment and Beyond! Grand Prairie's Quest to Modernize 247 Large Commercial Water Meters Gabriel Johnson <i>City of Grand Prairie</i> Aaron Conine <i>Freese and Nichols</i> Stephen Johnson <i>Freese and Nichols</i></p>	3:20 - 3:50 pm
<p>Enemies at the Gate: Zebra Mussel Mitigation at Possum Kingdom Greg Vaughn <i>Lockwood, Andrews & Newnam</i> Mark Urbanovsky <i>Texas Parks and Wildlife Department</i></p>	<p>From Paper to Pixels: Implementation of Asset Management Adam McKnight <i>Upper Trinity Regional Water District</i></p>	<p>Bridging the Gap: Using an Established Concrete Bridge Repair Method for Rehabilitation of PCCP Steffi Masey <i>AECOM</i> Mike Query <i>Trinity River Authority</i> Tania Ho <i>Trinity River Authority</i></p>	<p>What Happens to Your Distribution System When the Lights Go Out? How One City Utilized Elevated Storage Tanks to Protect and Serve Their Citizens Ryan Opgenorth, <i>Freese and Nichols</i> Josh Kristinek, <i>City of Lubbock</i> John Turpin, <i>City of Lubbock</i> Andrew Franko, <i>Freese and Nichols</i></p>	3:55 - 4:25 pm
<p>Between a Rock and a Hard Place - Options for Ceramic Membranes Joshua Berryhill <i>eHT</i> Matt Molter <i>Corix Utilities Texas</i></p>	<p>A Strategic Step in Fort Worth Water's Asset Management Journey Wendy Chi-Babulal <i>Fort Worth Water</i> Mazen Kawasmi <i>Freese and Nichols</i> Jessica Brown <i>Freese and Nichols</i></p>	<p>Out with COORDINATION, in with COLLABORATION – Keeping the water flowing during improvements to the San Antonio Water Systems Bitters Pump Station Jaime Kypuros, <i>Tetra Tech</i> Satej Kulkarni, <i>Tetra Tech</i> Linda Bevis, <i>San Antonio Water System</i> Matt Olsen, <i>MGC Contractors</i> Romeo Soto, <i>Black & Veatch</i></p>	<p>Vertical Profiling of Water Supply Wells for Zonal Flow and Water Quality Parameters to Guide Prudent Well Field Management Decisions Steve Young <i>INTERA</i></p>	4:30 - 5:00 pm

TENTATIVE SCHEDULE TECHNICAL SESSIONS FRIDAY MORNING, APRIL 3

	Biosolids	Applied Research	Watershed Mgmt/Stormwater	Water Reuse
8:30 - 9:00 am	<p>The Future of Biosolids Management at the City of Fort Worth Village Creek Water Reclamation Facility Matt Berg, <i>Jacobs</i> Steven Nutter, <i>Fort Worth Water</i> David Townsend, <i>Fort Worth Water</i> Ana Pena, <i>Fort Worth Water</i> Chris Harder, <i>Fort Worth Water</i></p>	<p>Use of Copper to Prevent Zebra Mussel Attachment in a 75 MGD Raw Water Pipeline Caroline Russell <i>Carollo Engineers</i> Mark Ernst <i>Tarrant Regional Water District</i> Mike Misamore <i>Texas Christian University</i></p>	<p>The City of Houston's Use of Real-time Tributary Sensors and National Weather Forecasts to Manage Lake Houston Water Levels Drew Molly <i>City of Houston</i></p>	<p>Virtual Re-use-ality: Giving Plant Operators a Glimpse into El Paso's Direct Potable Reuse Future Hilma Perez <i>Carollo Engineers</i> Angel Bustamante <i>El Paso Water</i> Sanaan Villalobos <i>Carollo Engineers</i></p>
9:05 - 9:35 am	<p>Storing Biosolids During Rain Events - A Compelling Design and Construction Story of Fort Worth's First 5MG Liquid Biosolids Storage Tank Farida Goderya <i>Fort Worth Water</i> Aldo Sotelo <i>Stantec Consulting Services</i></p>	<p>Ceramic vs. Polymeric Membrane Systems: Planning and Pilot Testing for a Surface Water Treatment Plant Yue Sun <i>Ardurra</i></p>	<p>Implementation of Flood Planning and Funding Legislation from the 86th Legislative Session Kathleen Ligon <i>Texas Water Development Board</i></p>	<p>Highlights from Recent WRF Research Evaluating the Trade-Offs of Alternative Water Supplies Wendy Broley <i>Brown and Caldwell</i> Lynn Stephens <i>Brown and Caldwell</i></p>
9:40 - 10:10 am	<p>Preparing for the Inevitable: Initial Planning for Ultimate Solids Management Facilities at a Large Greenfield Wastewater Treatment Plant Donna Long, <i>North Texas Municipal Water District</i> Samir Mathur, <i>CDM Smith</i> Madeline Kull, <i>CDM Smith</i></p>	<p>Biologically Active Roughing Contactors for Sustainable Taste & Odor Control Chance Lauderdale <i>HDR</i> Christina Alito <i>HDR</i></p>	<p>Providing the Tools to Support Green Stormwater Infrastructure in Downtown Fort Worth Rose Sobel <i>CDM Smith</i> Gian Villarreal <i>CDM Smith</i></p>	<p>Reuse, Repurpose, Recycle: How The City of Frisco is Repurposing a Potable Water Ground Storage Tank to Serve Midland PGA National Headquarters Steven Rhodes, <i>Freese and Nichols</i> Clayton Barnard, <i>Freese and Nichols</i> Shawn Halle, <i>City of Frisco</i></p>
Networking Break in Technical Session Area 10:10 - 10:20 AM				
10:20 - 10:50 am	<p>Evaluation of New Polymer Optimization Options for Biosolids Dewatering Jeff Sober <i>Garver</i> John Bennett <i>Trinity River Authority of Texas</i></p>	<p>A PFAS Primer for Utilities – Technology Selection and Life-Cycle Cost Impacts Nicholas Burns <i>Black & Veatch</i></p>	<p>Building a Resilient Community in the San Antonio River Watershed Melissa Bryant <i>San Antonio River Authority</i></p>	<p>Two for the Price of One: Wet-Weather Filter Doubles for Reuse Applications Dylan Chistenson <i>Black & Veatch</i> Ignacio Cadena <i>Black & Veatch</i> Jim Fitzpatrick <i>Black & Veatch</i></p>
10:55 - 11:25 am	<p>Why One Utility said "Screw It" – Revisiting the Selection of Screw Press Technology for Solids Dewatering Improvements Rusty Tate <i>Garver</i></p>	<p>Removal of Emerging Contaminants Through Ozone-BAC: Influence of Activated Carbon Properties Adam Redding <i>Calgon Carbon Corporation</i> John Fox <i>Lehigh University</i></p>	<p>Saving the Drowned City: Design of the LID 2 Stormwater Pump Station Vishakha Kaushik <i>AECOM</i> Ron Cass <i>AECOM</i> Phil Martin <i>Mike Stone Associates</i></p>	<p>Beginning the Next Phase of Austin's Reclaimed Water System Matt Berg <i>Jacobs</i> Javier Ramirez <i>Austin Water</i> Alexandra Houston <i>Jacobs</i> Joseph Jenkins <i>Walker Partners</i></p>
11:30 - Noon	<p>Sidestream Phosphorus Management – Assessing Uncertainty For Technology Solution Identification Leon Downing <i>Black & Veatch</i> Eric Redmond <i>Black & Veatch</i></p>	<p>Behavioral Economics; Understanding & Predicting Unexpected Behaviors from Utility Customers Karen Guz <i>San Antonio Water System</i></p>	<p>Finishing Touches Chuck Brown <i>Upper Colorado River Authority</i></p>	<p>A "Fit-for-Purpose" Future: Onsite Reuse Systems and Demand Reduction Robert Stefani <i>Austin Water</i></p>

TENTATIVE SCHEDULE TECHNICAL SESSIONS FRIDAY MORNING, APRIL 3

Infrastructure Financing	Young Professionals	Public Info	Electrical and SCADA/I&C	
<p>Getting Ready to Eat an Elephant... Developing Program Delivery Strategies for Lake Ralph Hall Edward Motley <i>Upper Trinity Regional Water District</i> Ronna Hart <i>Upper Trinity Regional Water District</i></p>	<p>And That's the Tea: Tips & Tricks for Young Professionals Allison Blake <i>Freese and Nichols</i></p>	<p>Handling Crisis Communications in the Instant Information Age Mike McGill <i>WaterPIO</i></p>	<p>Traditional Controls and SCADA upgrades versus Next Generation Hybrid Control Systems Jose Pina <i>Schneider Electric</i></p>	8:30 - 9:00 am
<p>Cash is King (Cash Reserve Policy Considerations) Lawrence (Andy) McCartney <i>Fort Worth Water</i></p>	<p>Managing Distribution Quality During a Perfect Storm Andrea Fernandez <i>CDM Smith</i> Galen Roberts <i>North Texas Municipal Water District</i> Ellen Musallam <i>North Texas Municipal Water District</i> Susan Crawford <i>CDM Smith</i></p>	<p>No Budget? No Problem: 'Cheap' Tricks to Effectively Get Your Message Out on Social Media Daniel Vargas <i>San Antonio Water System</i></p>	<p>Addressing Pump Air-Locking with I&C Adjustments Heather Lindner <i>HDR</i> Kris Kneese <i>City of Fredericksburg</i></p>	9:05 - 9:35 am
<p>Where Did the Money Go? Tracking Construction Costs, Change Orders, and Allowances for Houston's \$1.765B Northeast Water Purification Plant Expansion Rajinder Singh, <i>City of Houston</i> Phil Smith, <i>Dannenbaum Engineering</i> Jasmin Zambrano, <i>City of Houston</i></p>	<p>Dealing with Hidden Vulnerabilities? High-Resolution Modeling Can Help Locate and Address Collection System Concerns Samantha Greivell <i>Garver</i> Greg Lushbaugh <i>San Jacinto River Authority</i> Daniel Olson <i>Garver</i></p>	<p>Trending in an Instant: A Risk Communications Guide for Water Utilities Mary Gugliuzza <i>Fort Worth Water</i></p>	<p>Ensuring Equipment Protection and Improving System Reliability Through Proper Relay Setting Reviews and Maintenance Douglas Durand <i>HV Engineering</i> Fred Hernandez <i>Tarrant Regional Water District</i> George Kelly <i>Tarrant Regional Water District</i></p>	9:40 - 10:10 am
Networking Break in Technical Session Area 10:10 - 10:20 AM				
		Value of Water	Resiliency & Cybersecurity	
<p>Who Pays? Austin Water's Business Model for its Reclaimed Water System Dan Pedersen <i>Austin Water</i></p>	<p>Why International Water Projects Fail Rachael Rodgers <i>Kimley-Horn and Associates</i></p>	<p>Tips, Tricks & Tools for Successful Live Videos: Telling the Story of the Value of Water Lilliana Gonzalez <i>San Antonio Water System</i></p>	<p>Water Industry Resilience and Cybersecurity Doug Short <i>Trinity River Authority</i></p>	10:20 - 10:50 am
<p>Cooperative Agreement Leads to Additional Water for Willow Park and Hudson Oaks Frank Crumb <i>Half Associates</i> Bryan Grimes <i>City of Willow Park</i> Patrick Lawler <i>City of Hudson Oaks</i></p>	<p>Challenge Accepted – Adapting with Changing Requirements for a Wastewater Treatment Plant Improvements Project Sarang Agarwal <i>Stantec Consulting Services</i> Marilena Stoica <i>City of Houston</i></p>	<p>From Permitting to Turning Dirt: Public Outreach to Support Construction of the First Major Texas Reservoir in 30 Years Jeff McKitto <i>North Texas Municipal Water District</i></p>	<p>One Size Does Not Fit All: Right-Sizing Your Risk and Resilience Assessment David Hunn <i>Freese and Nichols</i></p>	10:55 - 11:25 am
<p>A Community Seeing Red – Fixing Red Water Without Going in the Red Financially Matthew Garrett <i>NewGen Strategies and Solutions</i></p>	<p>Applying Landscape Water Budgets to Quantify Water Savings Potential for Public Facilities in Three Texas Cities Alan Lewis <i>Texas A&M University</i> Prakash Khedun <i>Texas A&M University</i> Ronald Kaiser <i>Texas A&M University</i></p>	<p>Seeing 2020: Visualizing Water Industry Marketing and Branding Strategies in the New Decade Alicia Smiley <i>AECOM</i></p>	<p>After AWIA: Planning and Implementing Effective Cybersecurity Bob George <i>Tetra Tech</i></p>	11:30 - Noon